

REFUSE CONTAINER LID

ABSTRACT OF THE DISCLOSURE

A lid (10) for covering at least a portion of a top opening (90) of a refuse bin (81) generally comprises a rectangular panel (20) including an upper side (30); a lower side (40); a mid-section (77); a hinge end (50) including hinge bearings (54); and an opening end (60). Panel (20) is defined by a plurality of upwardly arched longitudinal corrugations (21), sinusoidal in lateral section, spanning substantially between opening end (60) and hinge end (50). An exemplary embodiment includes a bend section (13) at a predetermined lateral cross-section such that a longitudinal compressive force on opening end (60) at failure buckles panel (20) convex upward at bend section (13). The mid-section of panel (20) is upwardly laterally arched. Lid (10) includes a plurality of protrusions (45) such that a plurality of lids (10) may be stacked in a parallel relationship. The area of bearings (54) is large and preferably exceeds 10% of the area of hinge rod (94).